



**BG JACK STERLING**

**21 MAY 2007**



# OUR VISION



## The Army Engineer School Vision

- A world-class center of expertise in joint engineer capabilities
- Recognized leader in developing doctrine, units, and equipment capable of assuring the mobility of the land force – anytime, anywhere!
- World's best trainer of military engineers for an Army serving a Nation at war

## The Engineer Regiment Vision through FY09

- Support WOT with trained modular organization
- Complete the modular force and institutional transformation
- Posture for the next transformation

Regimental Vision: “Assure Freedom of Maneuver for the Land Force **and maintain relevance to the Nation**”



# ENGINEER REGIMENTAL CAMPAIGN PLAN



## SUPPORT TO WOT

- Training
  - Support
  - Communications

## COMPLETE THE TRANSFORMATION

- Organization
  - Materiel

## POSTURE FOR THE FUTURE

- FCS

**Assure Freedom  
of Maneuver for  
the Land Force  
and maintain  
relevance to the  
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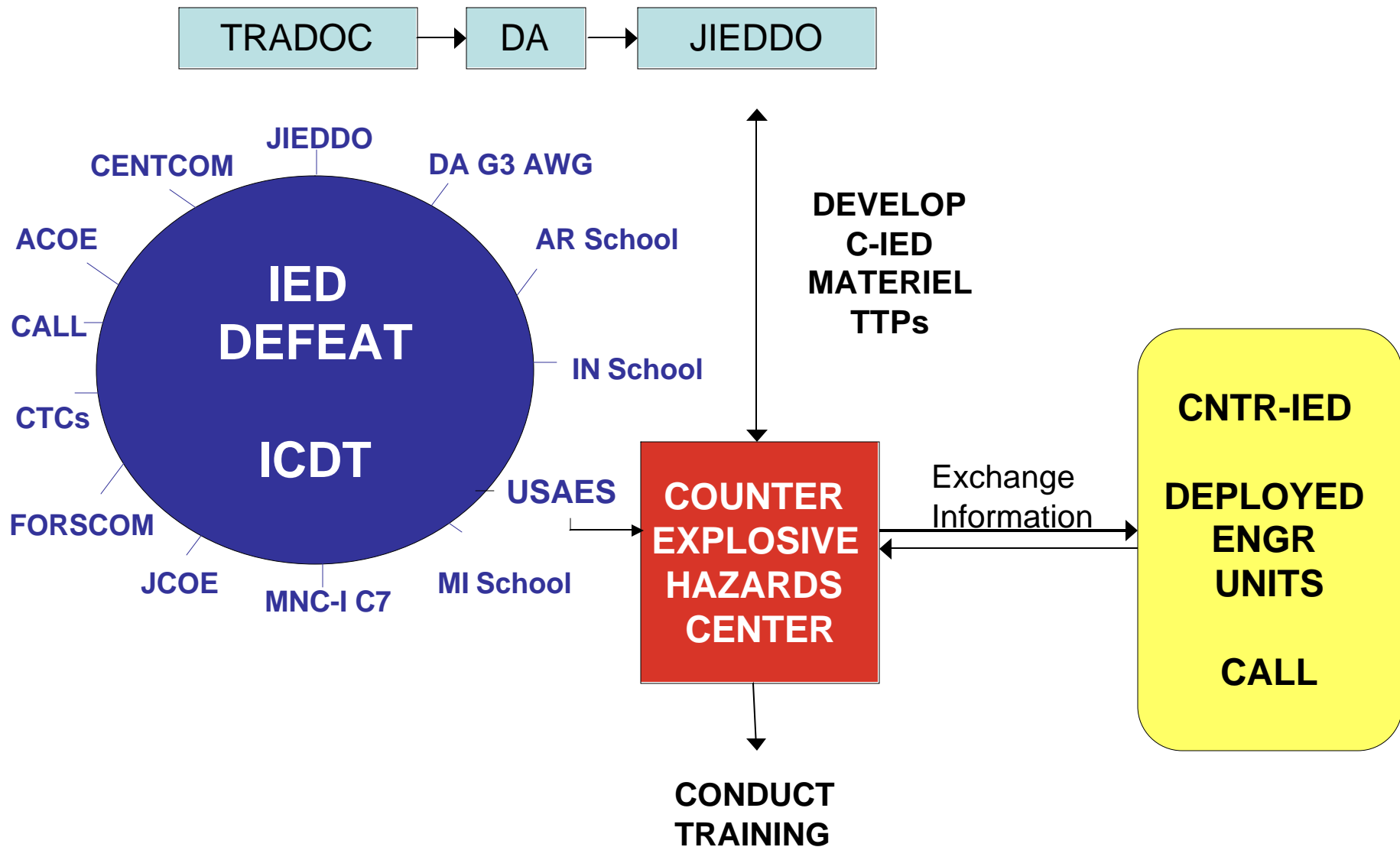
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# Construct for Support to WOT







# Contingency Training



## Rapid Development of Contingency Training Required to Support Deploying Joint Forces

- Identify training gaps
- Rapidly develop contingency training
- Leverage contract / temp hire instructors
- NCO cadre w/ current operational experience
- Transition enduring requirements to EN School



## Current Courses

- R2C2-Operator
- R2C2-Maintainer
- R2C2-Sapper
- CEH-Planner
- Area Clearance
- EHCC
- IEDD-T3 (MTT)
- Advanced Search
- Combat Search



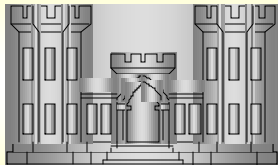


# EOD/Engineer Integration



## SAPPERS

Breaching / Clearing



**Assure Mobility  
and  
Protect the Force**

**Route and Area Clearance Operation  
Explosive Hazard Countermeasures  
(IED, UXO, Mines and Booby Traps)  
Captured Arms and Equipment (CAE)  
Advanced Search Operations  
Sensitive Site Exploitation (SSE)  
C2 / Planning / Synch / Coord**

**Rapid Transition  
through  
Full Spectrum Operations**

## EOD

Render Safe / CBRNE



***“Engineers have the inherent responsibility to maintain the capability to clear explosive hazards on the battlefield”***





# ENGINEER DETECTION DOGS



## Mine Detection Dog (MDD)

- Trained to “detect” mines and other explosive items buried in the ground
- Extensive MSR proofing experience (Roads, Trails and Railways)
- Proven capability in fields, woods, deserts, caves and embankments

## Specialized Search Dog (SSD)

- Trained to search and detect firearms, ammunition, explosives
- Extensive search experience (Buildings, Vehicles, and Open Areas)
- Proven capability in route clearance, cache search, vehicle check points and helicopter landing zone clearance



**OPERATIONAL ENVIRONMENT DICTATES THE REQUIRED CAPABILITY**

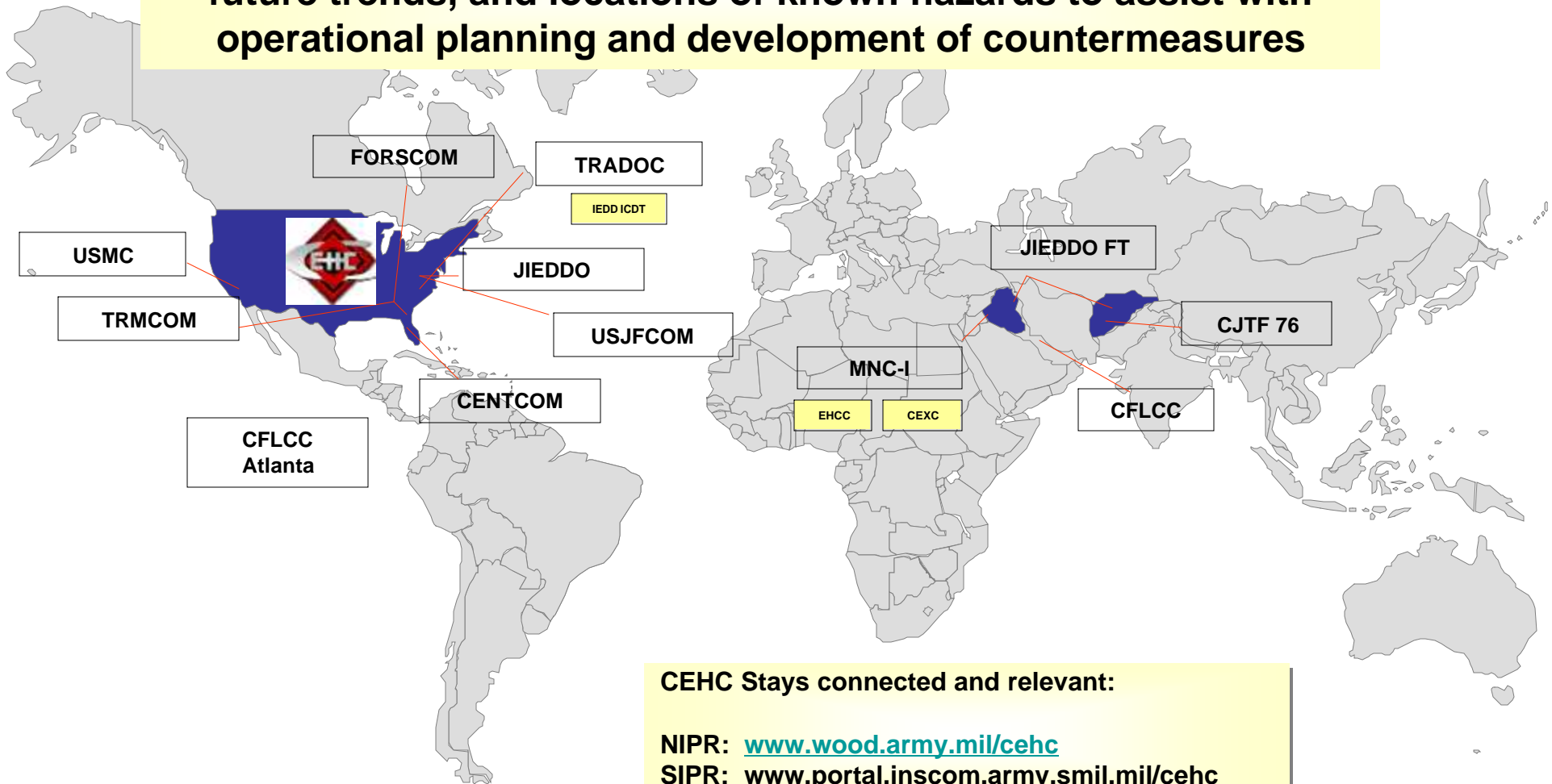




# Intelligence Fusion and Connectivity



Continual analysis of explosive hazard threats around the world to include enemy tactics, technology, migration of capabilities, future trends, and locations of known hazards to assist with operational planning and development of countermeasures



CEHC Stays connected and relevant:

NIPR: [www.wood.army.mil/cehc](http://www.wood.army.mil/cehc)

SIPR: [www.portal.inscom.army.smil.mil/cehc](http://www.portal.inscom.army.smil.mil/cehc)



# CEHC Website



**Counter Explosive  
Hazards Center**  
Fort Leonard Wood, Missouri

## Counter Explosive Hazards Center

 [Sign In](#)

[Home](#) [Training](#) [Intelligence](#) [Technical](#) [CEHC Contacts](#)

### Welcome to the Counter Explosive Hazards Center

#### Mission:

Serve as the Army integrator and Center of Excellence for all explosive hazard countermeasures in order to support assured mobility and protect the force during full spectrum military operations.

#### CEHC Focus Areas

- Route Reconnaissance and Clearance
- IED Defeat Train the Trainer POI CEHC (Updated as of 04 MAY 07)
- IED Defeat
- Military Search
- Explosively Formed Penetrator (EFP) Slides
- Updated TTPs and links (in SIPRnet Links on our Intelligence page)
- Engineer Detect Dog Information
- References, Manuals, GTAs

[Add new link](#)

#### Vision:

- World Class Center of Countermine (Mines, UXO, & IEDs) and Counter Booby Trap Excellence and Integration

#### Announcements

##### Joint CREW Handbook GTA 90-10-047

Handbook is available for download from our Technical Page under Material Documents.

##### 5th En BN Task Force Iron Claw

Check our Route Reconnaissance and Clearance Page for Task Force Iron Claw Briefs as well as POIs.

##### Route Clearance Handbook

The Route Clearance Handbook from MNCI, C7, EHCC dated Jul 06 is available on our Route Reconnaissance and Clearance Page.

##### Engineer Hot Topics

Click [HERE](#) for Secure and FOUO Warfighter Products, including Detect Dog information, and helpful links.

##### Tactical Minefield Database (TMFDB)

General information and downloadable datasets for the TMFDB available on our [\(Intelligence\\_Page\)](#)

#### SIPR Links

- AKO-S



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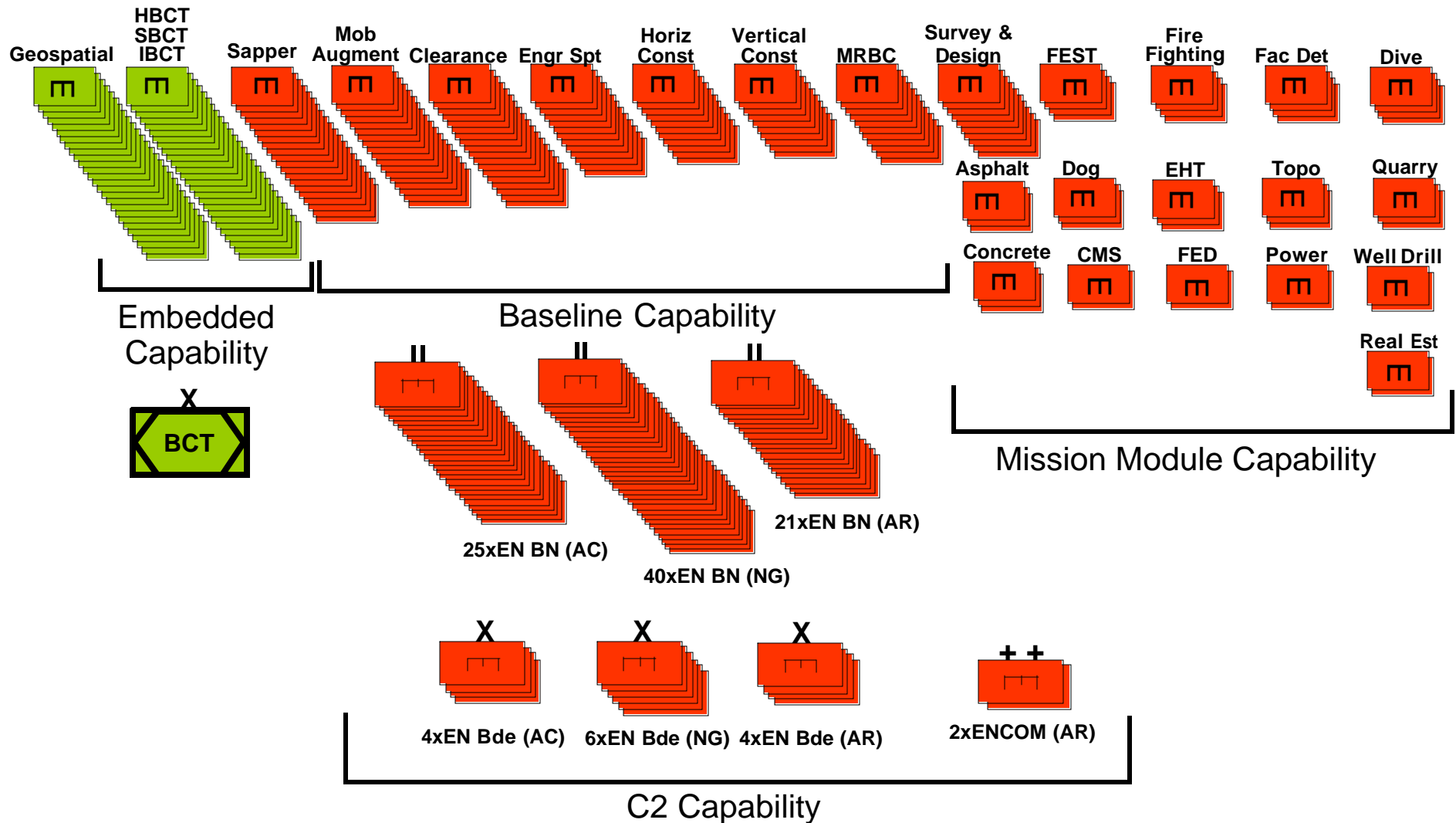
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# The Modular Engineer Force







# New Modular Designs



- Engineer Brigade HQs
- Engineer Battalion HQs
  - Construction & Geodetic Survey, Design Section
  - Construction Management Section
  - Geospatial Planning Cell
  - Explosive Hazards Coordination Cell
  - Explosive Hazards Team

## Combat

- Sapper Company
- Mobility Augmentation Company
- Engineer Support Company
- Clearance Company

## Construction

- Horizontal Company
  - Equipment Support Platoon
  - Asphalt Platoon
  - Concrete Section
  - Quarry Platoon
- Vertical Company
- Topographic Company

### Bottom Line

**18** new modular designs created.  
**36** current unit-types go away.

### End State

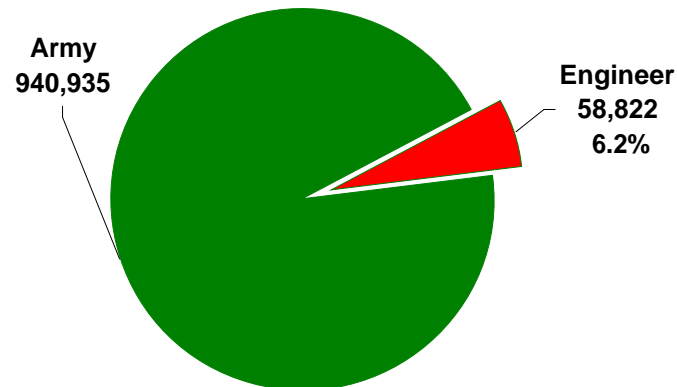
....greater flexibility but no loss in capabilities!



# Engineer Force Structure

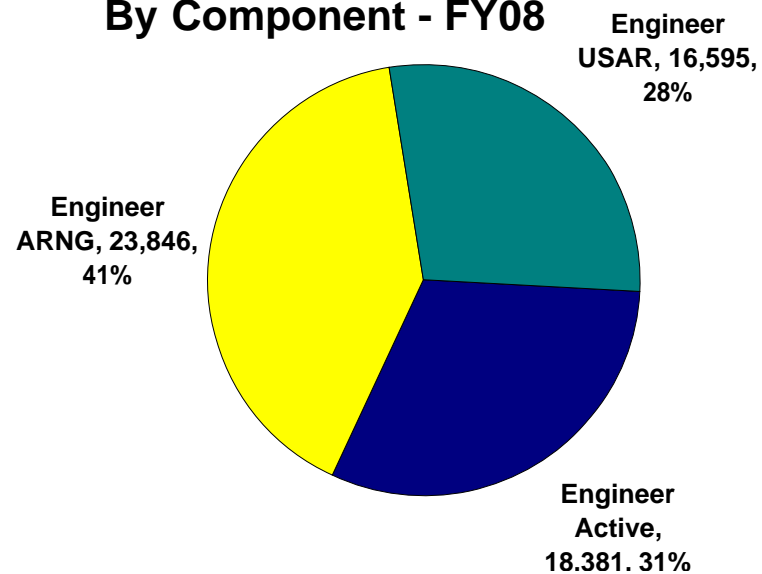


## Engineer Corps Soldiers in the Army – FY08

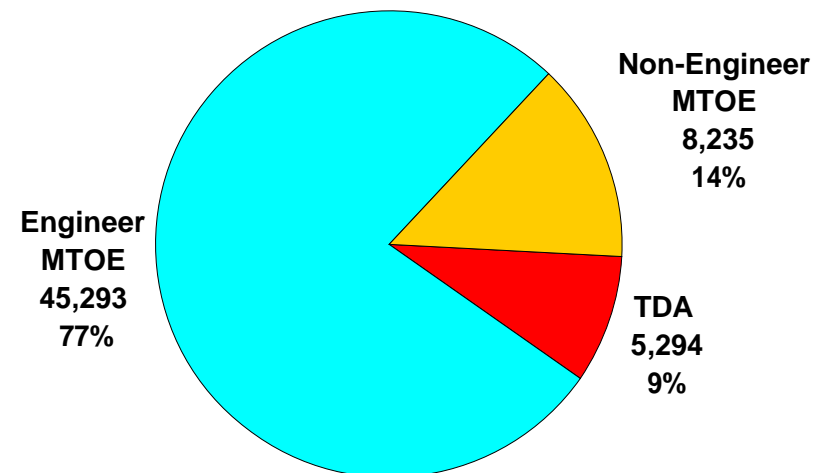


58,822  
Engineer  
Soldiers  
authorized

## Engineer Corps Soldiers By Component - FY08

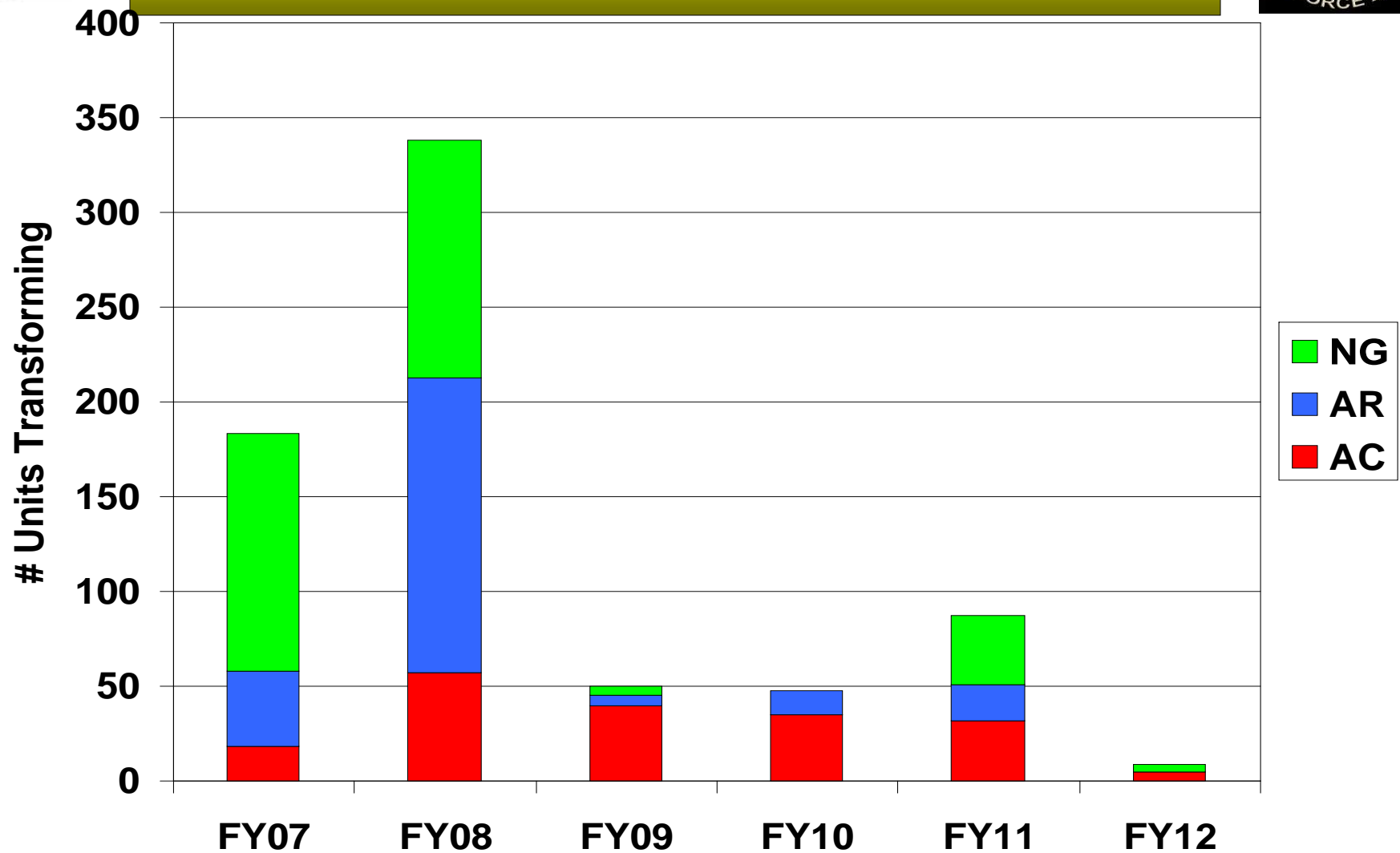


## Engineer Corps Soldier Distribution – FY08





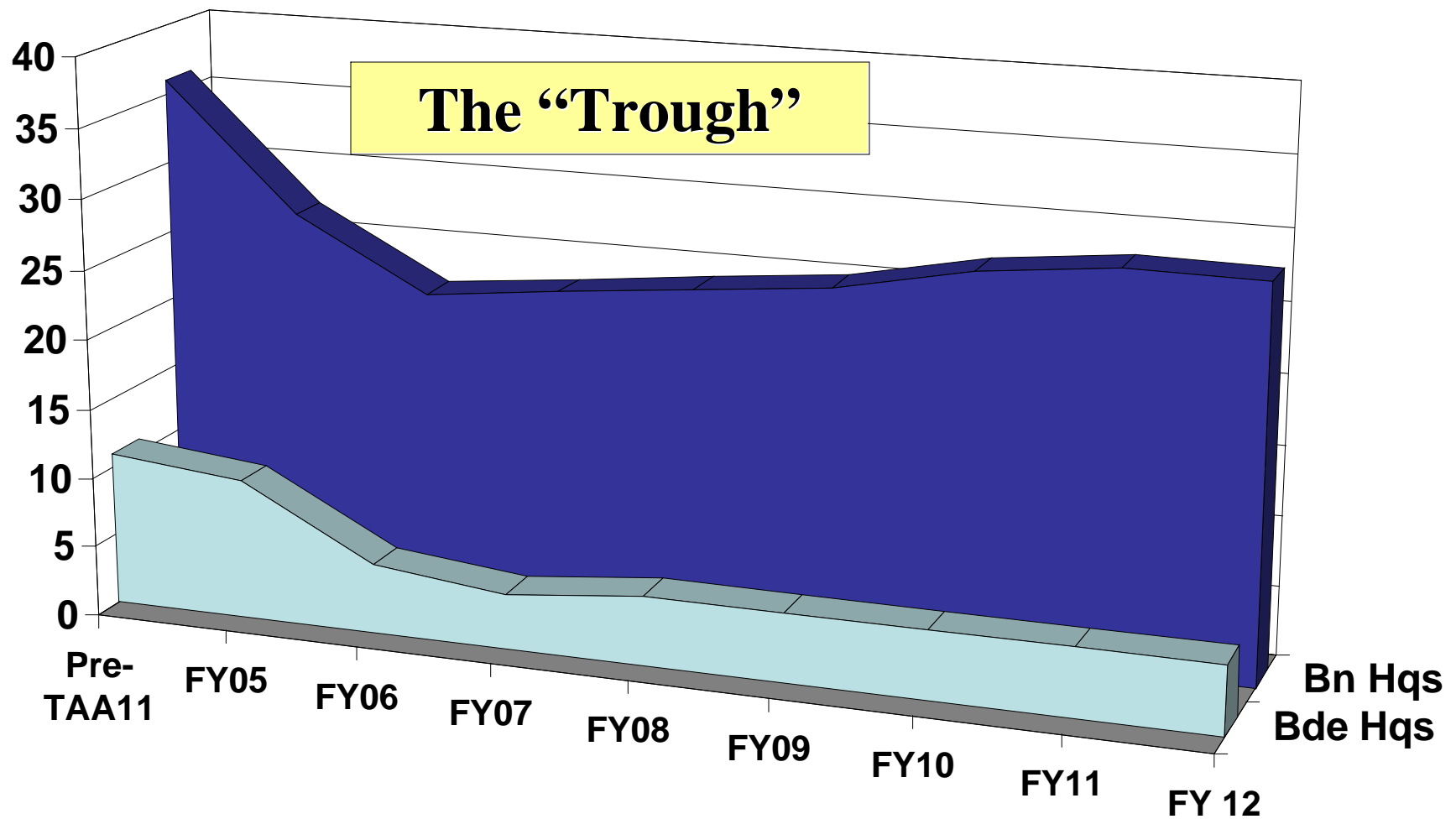
# Total Transformation Timeline



*From ENCOM to Section Level: All Activations, Conversions, and Inactivations.*



# Active Component Bn/Bde Hqs with GTA



















# Grow the Army

## Modular Engineer Force



 Growth Total	BDE +2	BN +11	CO +55	Det +26
AC	 +1 5	 +3 28	 +26 174	 +19 80
ARNG	 +1 7	 +4 44	 +13 211	 +3 116
USAR	 4	 +4 25	 +16 111	 +4 94

























# Grow the Army

## Modular Engineer Force

### Company Breakout



 Growth Total	Sapper	MAC	Clearance	ESC	Horizontal	Vertical	MRBC
AC	 +4 23	 13	 +7 12	 +2 11	 +5 24	 +2 12	 5
ARNG	 +3 39	 +1 17	 +1 4	 +7 21	 46	 43	 +1 12
USAR	 +6 6	 17	 +8 12	 5	 25	 36	 +2 9



# Grow the Army


























## Modular Engineer Force

### Detachment Breakout



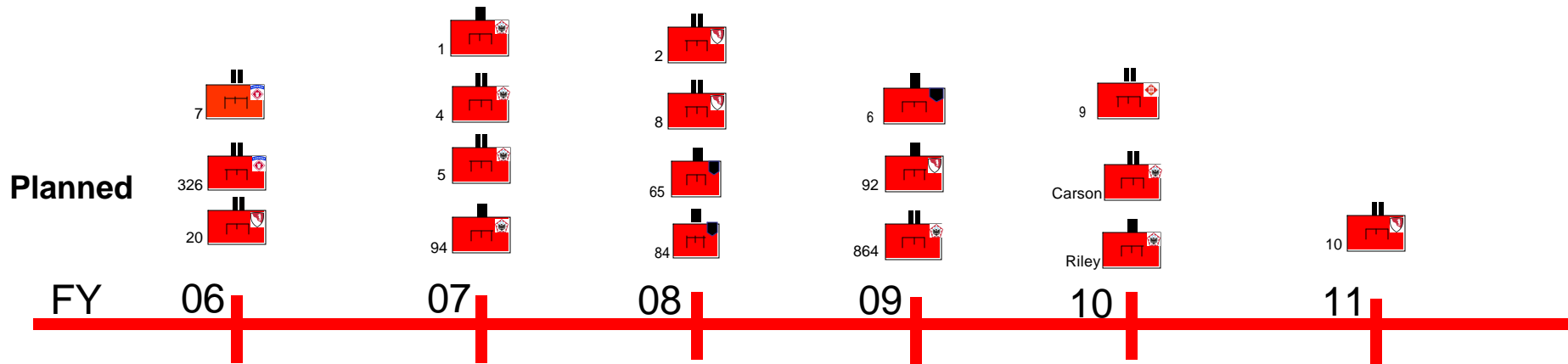
 **Growth**  
 Total

### Engineer Detachments

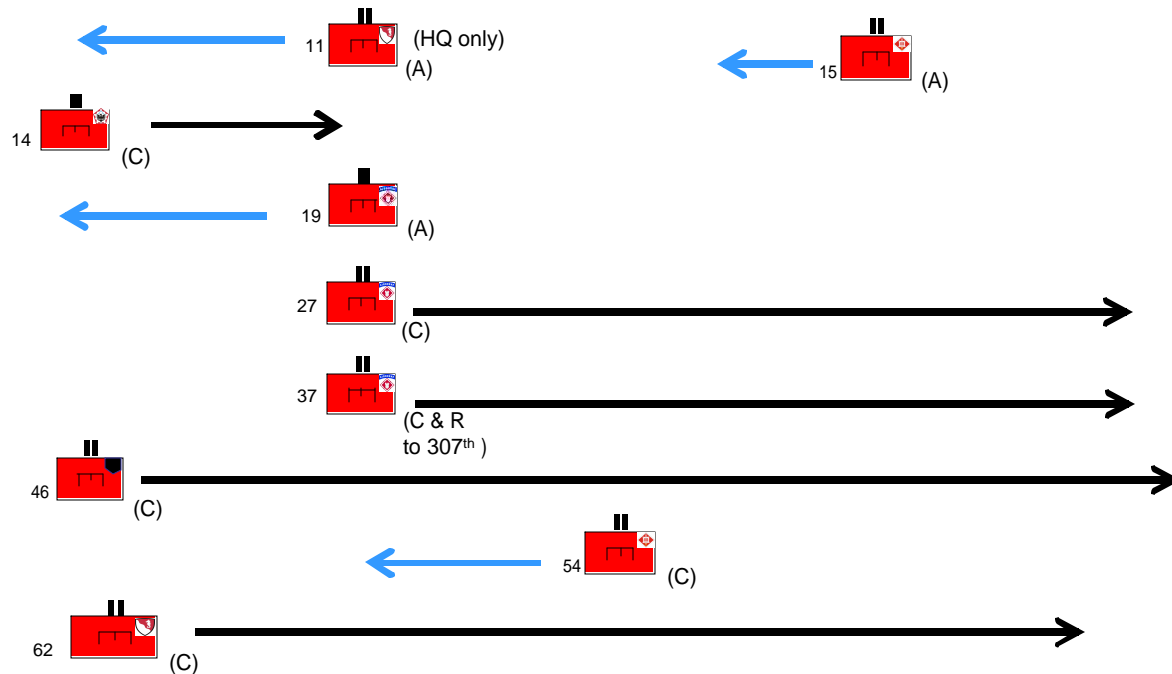
	<div>  <b>Growth</b> </div>							
AC	<div>  +2           </div> 12	<div>  +3           </div> 9	<div>  </div> 3	<div>  </div> 11	<div>  </div> 12	<div>  </div> 12	<div>  </div> 6	
	<div>  +4           </div> 5	<div>  +10           </div> 10						
ARNG	<div>  </div> 13	<div>  </div> 13	<div>  +1           </div> 16	<div>  +1           </div> 39	<div>  </div> 8	<div>  </div> 4	<div>  +1           </div> 3	
	<div>  </div> 1		<div>  </div> 6	<div>  </div> 9		<div>  </div> 4		
USAR	<div>  </div> 12	<div>  </div> 11	<div>  </div> 7	<div>  </div> 42				
	<div>  +4           </div> 4				<div>  </div> 2	<div>  </div> 16		



# Modularity Timeline by FY



## Executed



**Modularity will continue to be dynamic and driven by LAD.**



# Engineer Transformation Challenge



The Perfect Opportunity

**FUSION CELL**  
Synchronize  
and Modify



ENDSTATE: Synchronization  
LEAD: Engineer School



**WOT SOURCING**  
(OIF / OEF)



**BASING**  
(BRAC / IGPBS / Discretionary Moves)



**MODULARITY**  
(Convert 98 SRCs to 31 Modules)

**EN BN Requirement**

↑  
**Pentagon OCE**  
↑  
**FORSCOM**  
↑  
**DA G3**  
↑  
**Joint Staff (EN)**  
↑  
**CENTCOM**  
↑  
**CFLCC**  
↑  
**MNC-I**

XX EN BN  
Redeploys and  
Deploys same FY

**EN BN Relocation**

↑  
**BRAC Commission**  
↑  
**DA G3**  
↑  
**ACSIM**  
↑  
**IMA**  
↑  
**FORSCOM**  
↑  
**USAEUR**  
↑  
**EUSA**

XX EN BN  
Moves- OCONUS  
to CONUS

**Modular EN BN  
Conversion**

↑  
**BCT Based Force**  
↑  
**DIV EN BNs**  
↑  
**BCT ENG**  
↑  
**DIV Based Force**  
↑  
**No DIV EN BDEs**  
↑  
**DIV ENG**  
↑  
**DIV Based Force**  
↑  
**DIV EN BDEs**  
↑  
**BDE CDR**

XX EN BN  
Converts to  
BN HQ + 7 Modules

Problem: ??  
Lack of  
Horizontal  
Integration

- What is the plan?
- Who is in charge?
- TRO?
- Simultaneous deployment of Bde HQs?
- ARFORGEN?

Reality in the field

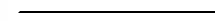
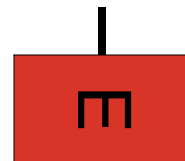
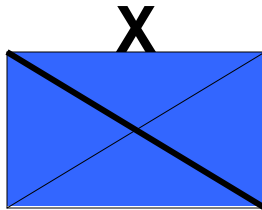


# Equipping Modular Engineers

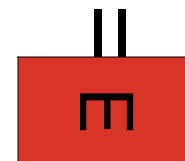
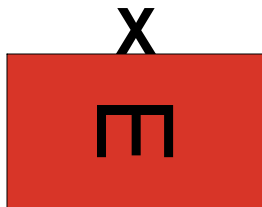
CURRENT TO FUTURE PLATFORM



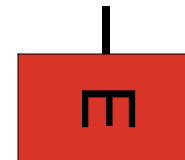
HBCT  
SAPPERS



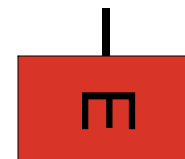
EAB  
ENGRS



CBT



CLNC



MAC





# Sets, Kits, and Outfits



DIVING



HEPPOE



ENFIRE



CARPENTER



PIONEER



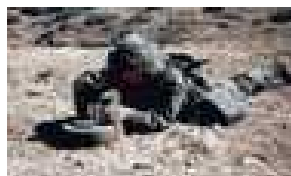
URBAN OPERATIONS



HAZARD MARKING



SURVEYING



SEARCH



MASONRY



FIRE FIGHTERS



JRAC



PRIME POWER



MINE DOGS



URBAN OPERATIONS



CARPENTER SHOP



SAPPER PAC

**Multiple Capabilities - Multiple Years - Multiple Users**





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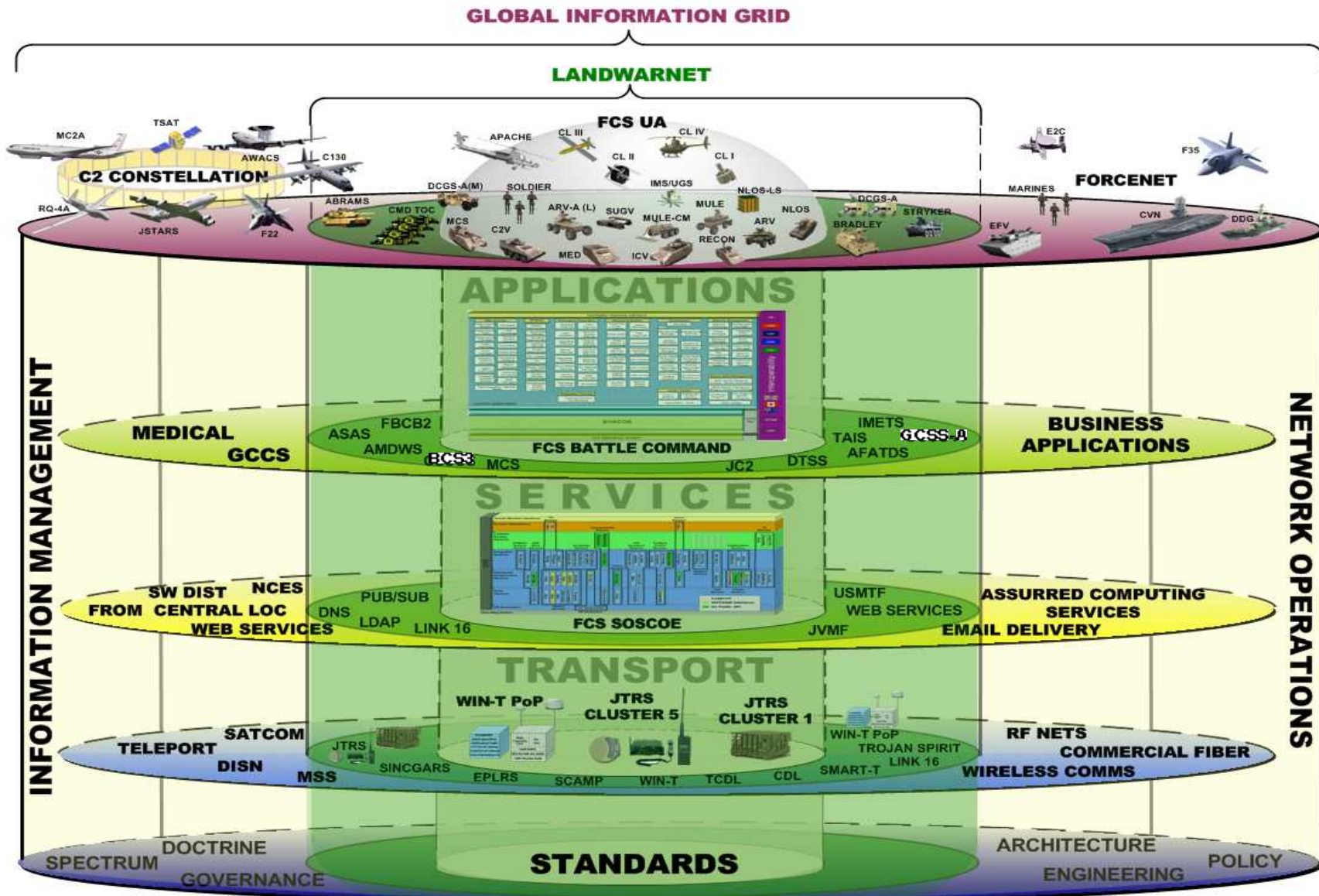
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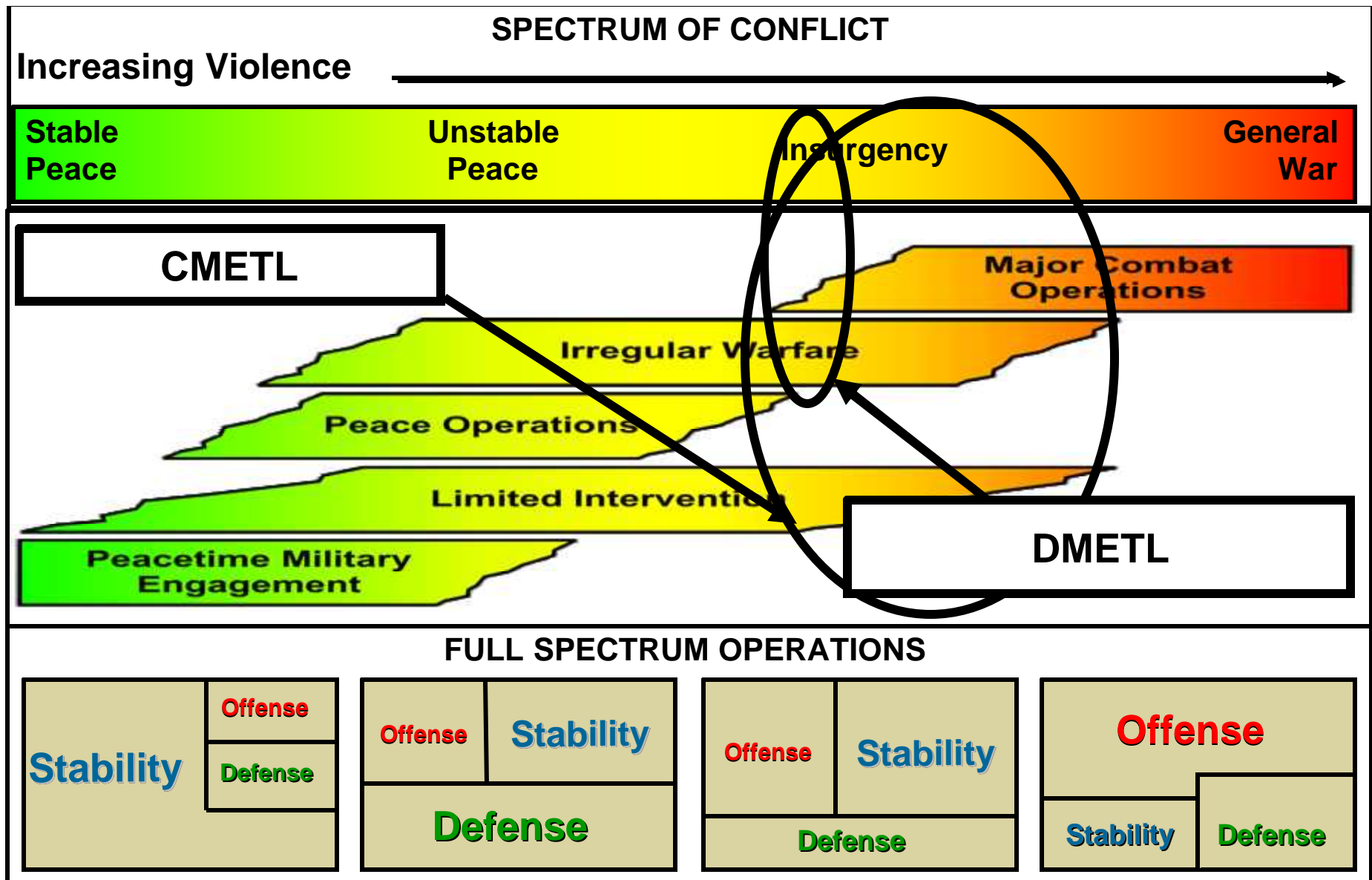




# Global Information Grid (GIG)



# FM 7-0: THE SPECTRUM



***A unit cannot train for every possible task or contingency!***



# Challenges for Future



- Continue resourcing for Modularity
  - Personnel
  - Equipment
- Technical Engineer Skills in Full Spectrum Operations
  - Degreed Engineers
  - USACE experience
- Integrating Engineers in Explosive Hazard Neutralization
  - BIP
  - EOCA
- Integrating New Systems

# ***Essayons!***

- **Our Army is Transforming and Re-Basing while fighting the WOT**
- **Engineer Leaders are dealing with enormous complexity**
- **The Regiment's contributions to the Army continue to provide tremendous value to commanders**







# QUESTIONS?

